		Demand Si	de Worksh	eet			
EGR Name:							
Occupation Name:	Chemical Techniciar	ns					
Occupation SOC:	19-4031						
1. Estimated Job vacancies,	end of 2005						
Lower estimate	5						
Middle estimate	30						
Upper estimate	70						
Year	2006	2007	2008	2009	2010	2011	2012
A. Lower projection:							
Total, all industries in EGR	4	4	4	4	4	4	4
325 Chemcial	4	4	4	4	4	4	4
B. Middle projection:							
Total, all industries in EGR	30	20	10		5	5	5
325 Chemcial	30	20	10	5	5	5	5
C. Upper projection:							
Total, all industries in EGR	70	30	20		20	20	20
325 Chemcial	70	30	20	20	20	20	20

	Supply Side	Workshee	t #1 ("Prod	luction")			
EGR Name:	EGR7						
Occupation Name:	Chemical Technician	ıs					
Occupation SOC:	19-4031						
Projected "production" of new entra	nts into this occu	upation, by y	vear ear				
Year	2006	2007	2008	2009	2010	2011	2012
a. Graduates/completers of education and tr	aining programs in	this EGR:					
ISU Life Sciences: Microbiology	2	2	2	2	2	2	2
ISU Chemistry	6	6	6	6	6	6	6
ISU Clinical Laboratory Science	4	4	4	4	4	4	4
Ivy Tech Biotechnology	9	9	15	15	15	15	15
ISU Life Sciences	25	25	25	25	25	25	25
b. Other sources of entrants (other than in-n	nigration)						
c. Total new supply	46	46	52	52	52	52	52

Wor	kehoot for Cal	culating Short	agos or Su	rnluege of	One Occu	nation		
EGR Name:		Culating Short	ages or Su	Thinses of	One Occu	pation		
	Chemical Technicia	nn						
Occupation Name:		an						
	19-4031							
A. Lower projection:								
Total, all industries in EGR								
Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		5	-11	-27	-49	-71	-93	-115
New demand during year		4	4	4	4	4	4	4
New production during year		46	46	52	52	52	52	52
Net migration during year		-26	-26	-26	-26	-26	-26	-26
Net change during year		-16	-16	-22	-22	-22	-22	-22
Carryover to next year (+/-)	5	-11	-27	-49	-71	-93	-115	-137
B. Middle projection:								
Total, all industries in EGR								
Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		30	40	40	24	3	-18	-39
Carryover from last year (+/-) New demand during year	_	30 30	40 20	40 10	24 5	<u>3</u> 5	-18 5	5
								5 52
New demand during year New production during year Net migration during year	_	30	20	10	5	5	5	5 52 -26
New demand during year New production during year		30 46	20 46	10 52	5 52	5 52	5 52	5 52 -26 -21
New demand during year New production during year Net migration during year	30	30 46 -26	20 46 -26	10 52 -26	5 52 -26	5 52 -26	5 52 -26	5 52 -26
New demand during year New production during year Net migration during year Net change during year	30	30 46 -26 10	20 46 -26 0	10 52 -26 -16	5 52 -26 -21	5 52 -26 -21	5 52 -26 -21	5 52 -26 -21
New demand during year New production during year Net migration during year Net change during year Carryover to next year (+/-)	30	30 46 -26 10	20 46 -26 0	10 52 -26 -16	5 52 -26 -21	5 52 -26 -21	5 52 -26 -21	5 52 -26 -21
New demand during year New production during year Net migration during year Net change during year Carryover to next year (+/-) C. Upper projection:	30	30 46 -26 10	20 46 -26 0	10 52 -26 -16	5 52 -26 -21	5 52 -26 -21	5 52 -26 -21	5 52 -26 -21
New demand during year New production during year Net migration during year Net change during year Carryover to next year (+/-) C. Upper projection: Total, all industries in EGR		30 46 -26 10 40	20 46 -26 0 40	10 52 -26 -16 24	5 52 -26 -21 3	5 52 -26 -21 -18	5 52 -26 -21 -39	5 52 -26 -21 -60 2012 106
New demand during year New production during year Net migration during year Net change during year Carryover to next year (+/-) C. Upper projection: Total, all industries in EGR Year		30 46 -26 10 40	20 46 -26 0 40	10 52 -26 -16 24	5 52 -26 -21 3	5 52 -26 -21 -18	5 52 -26 -21 -39	5 52 -26 -21 -60 2012 106 20
New demand during year New production during year Net migration during year Net change during year Carryover to next year (+/-) C. Upper projection: Total, all industries in EGR Year Carryover from last year (+/-)		30 46 -26 10 40 2006	20 46 -26 0 40 2007 120	10 52 -26 -16 24 2008	5 52 -26 -21 3 2009	5 52 -26 -21 -18 2010 118	5 52 -26 -21 -39 2011	5 52 -26 -21 -60 2012 106 20 52
New demand during year New production during year Net migration during year Net change during year Carryover to next year (+/-) C. Upper projection: Total, all industries in EGR Year Carryover from last year (+/-) New demand during year		30 46 -26 10 40 2006 70	20 46 -26 0 40 2007 120 30	10 52 -26 -16 24 2008 130 20	5 52 -26 -21 3 2009 124 20	5 52 -26 -21 -18 2010 118 20	5 52 -26 -21 -39 2011 112 20	5 52 -26 -21 -60 2012 106 20
New demand during year New production during year Net migration during year Net change during year Carryover to next year (+/-) C. Upper projection: Total, all industries in EGR Year Carryover from last year (+/-) New demand during year New production during year		30 46 -26 10 40 2006 70 70 46	20 46 -26 0 40 2007 120 30 46	10 52 -26 -16 24 2008 130 20 52	5 52 -26 -21 3 2009 124 20 52	5 52 -26 -21 -18 2010 118 20 52	5 52 -26 -21 -39 2011 112 20 52	5 52 -26 -21 -60 2012 106 20 52 -26 -6
New demand during year New production during year Net migration during year Net change during year Carryover to next year (+/-) C. Upper projection: Total, all industries in EGR Year Carryover from last year (+/-) New demand during year New production during year Net migration during year		30 46 -26 10 40 2006 70 70 46 -26	20 46 -26 0 40 2007 120 30 46 -26	10 52 -26 -16 24 2008 130 20 52 -26	5 52 -26 -21 3 2009 124 20 52 -26	5 52 -26 -21 -18 2010 118 20 52 -26	5 52 -26 -21 -39 2011 112 20 52 -26	5 52 -26 -21 -60 2012 106 20 52 -26

(1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite.

- A. "Lower" means that your EGR thinks the probablity is no more than 25% that the true value lies below it.
- B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.
- C. "Upper" means that your EGR thinks the probablity is no more than 25% that the true value lies above it.

⁽²⁾ This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:

	Demand Side Worksheet											
EGR Name: E	EGR7											
Occupation Name:	Respiratory Therapist											
Occupation SOC: 2	29-1126											
1. Estimated Job vacancies, end of 200	5											
Lower estimate	7											
Middle estimate	10											
Upper estimate	13											
2. Projected number of job openings an	nually due to growth	and net replacements										
Year	2006	2007	2008	2009	2010	2011	2012					
A. Lower projection:												
Total, all industries in EGR	7	7	7	7	7	7	7					
622 Hospitals	4	4	4	4	4	4	4					
623 Nursing and Residential Care Facilities	3	3	3	3	3	3	3					
B. Middle projection:												
Total, all industries in EGR	10	10	10	10	10	10	10					
622 Hospitals	6	6	6	6	6	6	6					
623 Nursing and Residential Care Facilities	4	4	4	4	4	4	4					
C. Upper projection:												
Total, all industries in EGR	13	13	13		13	13	13					
622 Hospitals	8	8	8	8	8	8	8					
623 Nursing and Residential Care Facilities	5	5	5	5	5	5	5					
			N									
			Notes:									
This worksheet allows for "ranges" of estimates	s and projections in recog	nition of the fact that these	values cannot be known	with certainty. The meani	ngs of the words "Lower."	"Middle," and "Upper" are	as follows:					

This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:

A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it.

B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.

C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it.

Supply	/ Side Wo	orkshee	t #1 ("Pi	roductio	on")							
EGR Name	: EGR7		-		-							
Occupation Name	: Respiratory	/ Therapist										
Occupation SOC	29-1126											
Projected "production" of new	v entrants	into this	occupation	on, by ye	ar							
Year	2006	2007	2008	2009	2010	2011	2012					
a. Graduates/completers of education			<mark>ns in this E</mark>									
Ivy Tech	8	14	15	15	15	15	15					
b. Other courses of automate (ather t		-4!\										
b. Other sources of entrants (other t	inan in-migra	ation)										
	_											
	_											
. Total navy avenue		C Total new supply 8 14 15 15 15 15 15										
c. Total new supply	8	14	15	15	15	15	15					
c. Total new supply	8	14	15	15	15	15	15					
c. Total new supply	8	14	15	15	15	15	15					
						15	15					
Suppl	ly Side W					15	15					
Suppl EGR Name	ly Side W	orkshee				15	15					
Suppl EGR Name Occupation Name	ly Side W	orkshee				15	15					
Suppl EGR Name	ly Side W	orkshee				15	15					
Suppl EGR Name Occupation Name Occupation SOC	y Side W E: EGR7 E: Respiratory E: 29-1126	orkshee	et #2 ("N	ligration	n")							
Suppl EGR Name Occupation Name	ly Side W	orkshee				2011	2012					
Suppl EGR Name Occupation Name Occupation SOC Year	ly Side W :: EGR7 :: Respiratory :: 29-1126	Therapist	2008	Aigration 2009	n")	2011						
Suppl EGR Name Occupation Name Occupation SOC Year 1. Projected IN-migration of w	ly Side We: EGR7: Respiratory: 29-1126	Therapist 2007	2008 pation to	Aligration 2009	2010 R, by year	2011						
Suppl EGR Name Occupation Name Occupation SOC Year 1. Projected IN-migration of waa. From outside this EGR	ly Side W :: EGR7 :: Respiratory :: 29-1126 2006 vorkers in 0	7 Therapist 2007 this occu	2008 pation to	2009 this EGF	2010 R, by yea	2011 r						
Suppl EGR Name Occupation Name Occupation SOC Year 1. Projected IN-migration of w	ly Side We: EGR7: Respiratory: 29-1126	Therapist 2007	2008 pation to	Aligration 2009	2010 R, by year	2011						
Suppl EGR Name Occupation Name Occupation SOC Year 1. Projected IN-migration of w a. From outside this EGR b. From other occupations	Side W EGR7 Respiratory 29-1126 2006 Vorkers in 0 0	Therapist 2007 this occu 0	2008 pation to 0	2009 this EGF	2010 R, by year 0	2011 r 0						
Suppl EGR Name Occupation Name Occupation SOC Year 1. Projected IN-migration of waa. From outside this EGR b. From other occupations 2. Projected OUT-migration of	Side W EGR7 Respiratory 29-1126 2006 Vorkers in 0 0	Zoo7 this occur o in this oc	2008 pation to 0	2009 this EGF	2010 R, by year 0	2011 r 0						
Suppl EGR Name Occupation Name Occupation SOC Year 1. Projected IN-migration of w a. From outside this EGR b. From other occupations	Side W EGR7 Respiratory 29-1126 2006 Vorkers in 0 0	Therapist 2007 this occu 0	2008 pation to 0	2009 this EGF	2010 R, by year 0	2011 r 0						
Suppl EGR Name Occupation Name Occupation SOC Year 1. Projected IN-migration of waa. From outside this EGR b. From other occupations 2. Projected OUT-migration of	ly Side West EGR7 E Respiratory 2006 vorkers in 0 0 f workers	Zoo7 this occur o in this oc	2008 pation to 0 cupation	2009 this EGF 0 0 to this E	2010 R, by year 0 0	2011 r 0 0						
Suppl EGR Name Occupation Name Occupation SOC Year 1. Projected IN-migration of waa. From outside this EGR b. From other occupations 2. Projected OUT-migration of a. To places outside this EGR	Volume Property Property	Therapist 2007 this occu 0 in this oc 3	2008 pation to 0 cupation 4	2009 this EGF 0 0 to this E	2010 R, by yea 0 0 GR, by yea	2011 r 0 0 ear 4						

		144 1 1 .			1000			
		Worksheet	for Calculating Sho	rtages or Surpluses	s of One Occupation	n		
EGR Name:								
	Respiratory Therapist							
Occupation SOC:	29-1126							
A. Lower projection:								
Total, all industries in EGR								
Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		7	8	4	0	-4	-8	-12
New demand during year		7	7	7	7	7	7	7
New production during year		8	14	15	15	15	15	15
Net migration during year		-2	-3	-4	-4	-4	-4	-4
Net change during year		1	-4	-4	-4	-4	-4	-4
Carryover to next year (+/-)	7	8	4	0	-4	-8	-12	-16
B. Middle projection:								
Total, all industries in EGR]							
Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		10	14	13	12	11	10	9
New demand during year		10	10	10	10	10	10	10
New production during year		8	14	15	15	15	15	15
Net migration during year		-2	-3	-4	-4	-4	-4	-4
Net change during year		4	-1	-1	-1	-1	-1	-1
Commence to most upon (. /)					-1	-1	-1	
Carryover to next year (+/-)	10	14	13	12	11	10	9	 8
Carryover to next year (+/-)	10	14			<u>.</u>			8
	10	14			<u>.</u>			8
C. Upper projection:	10	14			<u>.</u>			8
			13	12	11	10	9	2012
C. Upper projection: Total, all industries in EGR Year	2005	2006			<u>.</u>			2012 30
C. Upper projection: Total, all industries in EGR Year Carryover from last year (+/-)		2006	2007	2008	2009	2010	2011	30
C. Upper projection: Total, all industries in EGR Year Carryover from last year (+/-) New demand during year		2006	2007 20	2008	2009	2010 26	2011 28	30 13
C. Upper projection: Total, all industries in EGR Year Carryover from last year (+/-) New demand during year New production during year		2006 13 13	2007 20 13	2008 22 13	2009 24 13	2010 26 13	9 2011 28 13	30 13
C. Upper projection: Total, all industries in EGR Year Carryover from last year (+/-) New demand during year New production during year Net migration during year		2006 13 13 8	2007 20 13 14	2008 22 13 15	2009 24 13 15	2010 26 13 15	2011 28 13 15	2012 30 13 15 -4
C. Upper projection: Total, all industries in EGR Year Carryover from last year (+/-) New demand during year New production during year		2006 13 13 8 -2	2007 20 13 14 -3	2008 22 13 15 -4	2009 24 13 15 -4	2010 26 13 15 -4	2011 28 13 15 -4	30 13

(1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite. (2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows: A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it. B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it. C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it.

			Demand Side Wo	orksheet			
EGR Name:	EGR7						
Occupation Name:	Radiological Technologists an	d Technicians					
Occupation SOC:	29-2034						
1. Estimated Job vacancies, end	of 2005						
Lower estimate	10						
Middle estimate	12						
Upper estimate	13						
2. Projected number of job opening	ngs annually due to gro	wth and net replacemen	ts:				
Year	2006	2007	2008	2009	2010	2011	2012
A. Lower projection:							
Total, all industries in EGR	10	10	10	10	10	10	11
621 Ambulatory Health Care Services	3	3	3	3	3	3	;
622 Hospital	7	7	7	7	7	7	
B. Middle projection:							
Total, all industries in EGR	12	12	12	12	12	12	1:
621 Ambulatory Health Care Services		4	4	4	4	4	
622 Hospital	8	8	8	8	8	8	
C. Upper projection:							
Total, all industries in EGR	13			13			1
621 Ambulatory Health Care Services		5	5	5	5	5	
622 Hospital	8	8	8	8	8	8	
		l					
			Notes:				

This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:

A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it.

B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.

C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it.

Supply	y Side Wo	orkshee	t #1 ("P	roductio	on")		
EGR Name	: EGR7		-		-		
Occupation Name		l Technolog	ists and Te	chnicians			
Occupation SOC	: 29-2034						
Projected "production" of new		into this		on, by ye	ar		
Year	2006	2007	2008	2009	2010	2011	2012
a. Graduates/completers of education					0.0	0.0	
Ivy Tech	30	30	30	30	30	30	30
	+						
	+						
b. Other sources of entrants (other t	than in-migra	ation)					
b. Other sources of chiralits (other t		ation					
	┪						
c. Total new supply	30	30	30	30	30	30	30
	_				30	30	30
					30		
Suppl	ly Side W	orkshe:					
	ly Side W	orkshe					
EGR Name	: EGR7		et #2 ("N	Migration			
EGR Name Occupation Name	: EGR7 : Radiologica		et #2 ("N	Migration			
EGR Name	: EGR7 : Radiologica		et #2 ("N	Migration			
EGR Name Occupation Name	: EGR7 : Radiologica		et #2 ("N	Migration		2011	2012
EGR Name Occupation Name Occupation SOC	EGR7 ERAdiologica E29-2034	al Technolo	et #2 ("N	Migration	n")		
EGR Name Occupation Name Occupation SOC	E: EGR7 E: Radiologica E: 29-2034	al Technolo 2007	et #2 ("N gists and Te 2008	Migration echnicians	2010	2011	
EGR Name Occupation Name Occupation SOC Year	E: EGR7 E: Radiologica E: 29-2034	2007	et #2 ("N gists and Te 2008	Migration echnicians 2009 this EGF	2010	2011	
EGR Name Occupation Name Occupation SOC Year 1. Projected IN-migration of was a. From outside this EGR	e: EGR7 e: Radiologica e: 29-2034 2006 vorkers in	al Technolo 2007	et #2 ("N gists and Te 2008	Migration echnicians	2010 R, by year	2011	
EGR Name Occupation Name Occupation SOC Year 1. Projected IN-migration of w	2006 vorkers in	2007 this occu	gists and Te 2008 upation to	Migration echnicians 2009 this EGR	2010 R, by year	2011	2012
EGR Name Occupation Name Occupation SOC Year 1. Projected IN-migration of waa. From outside this EGR b. From other occupations	2006 vorkers in 0	2007 this occu 0	gists and Te 2008 pation to 0	Aligration echnicians 2009 this EGF 0	2010 R, by year	2011 0 0	2012
Tegr Name Occupation Name Occupation SOC Year 1. Projected IN-migration of waa. From outside this EGR b. From other occupations 2. Projected OUT-migration of the second secon	2006 vorkers in 0 f workers	2007 this occu 0 0 in this oc	et #2 ("Negists and Telegists	Aligration echnicians 2009 this EGF 0 0 to this E	2010 R, by year 0 0	2011	2012 0 0
Year 1. Projected IN-migration of wa. From outside this EGR b. From other occupations 2. Projected OUT-migration of a. To places outside this EGR	2006 vorkers in 0	2007 this occu 0	gists and Te 2008 pation to 0	Aligration echnicians 2009 this EGF 0	2010 R, by year	2011 0 0	2012 0 0
Tegr Name Occupation Name Occupation SOC Year 1. Projected IN-migration of waa. From outside this EGR b. From other occupations 2. Projected OUT-migration of the second secon	2006 vorkers in 0 f workers	2007 this occu 0 0 in this oc	et #2 ("Negists and Telegists	Aligration echnicians 2009 this EGF 0 0 to this E	2010 R, by year 0 0	2011	2012
Year 1. Projected IN-migration of wa. From outside this EGR b. From other occupations 2. Projected OUT-migration of a. To places outside this EGR	2006 vorkers in 0 f workers	2007 this occu 0 0 in this oc	et #2 ("Negists and Telegists	Aligration echnicians 2009 this EGF 0 0 to this E	2010 R, by year 0 0	2011	2012

												1
		Workshee	et for Calculati	ng Short	ages or Sur	oluses of (One Occupat	ion				
EGR Name: E												
	adiological Technologists a	and Technicians										
Occupation SOC: 29	9-2034											
A. Lower projection:												
Total, all industries in EGR												
Year	2005	2006	2007		2008		2009	2010		2011	2012	
Carryover from last year (+/-)		10		10		10	10		10	1	0	10
New demand during year		10		10		10	10		10	1	0	10
New production during year		30		30		30	30		30	3	0	30
Net migration during year		-20		-20	-	20	-20		-20	-2	0	-20
Net change during year		0		0		0	0		0		0	0
Carryover to next year (+/-)	10	10		10		10	10		10	1	0	10
B. Middle projection:												
Total, all industries in EGR												
Year	2005	2006	2007		2008		2009	2010		2011	2012	
Carryover from last year (+/-)		12		14		16	18		20	2	2	24
New demand during year	_	12		12		12	12		12	1:		12
New production during year	_	30		30		30	30		30	3		30
Net migration during year		-20		-20		20	-20		-20	-2		-20
Net change during year		2		2		2	2		2		2	2
Carryover to next year (+/-)	12	14		16		18	20		22	2	4	26
,						. •				_		
C. Upper projection:												
Total, all industries in EGR												
Year	2005	2006	2007		2008		2009	2010	1	2011	2012	
Carryover from last year (+/-)	2003	13		16		19 ·	22	2010	25		8	31
New demand during year		13		13		13	13		13	1:		13
New production during year		30		30		30	30		30	3		30
Net migration during year		-20		-20		20	-20		-20	-2		-20
Net change during year		3		3		3	3		3		3	-20
Carryover to next year (+/-)	13	16		19		22	25		28	3		34
Carry Cver to next year (+/-)	13	10			Notes:		2.0		20	3		34

- (1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite.

 (2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:

 A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it.

 B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.

 C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it.

			Demand Side Works	sheet			
EGR Name:	EGR7						
Occupation Name:	First-Line Supervisors/Manage	ers of Mechanics, Installers, an	d Repairers				
Occupation SOC:							
		-					
1. Estimated Job vacancies, end of 2005							
Lower estimate	16						
Middle estimate	24						
Upper estimate	33						
2. Projected number of job openings and							
Year	2006	2007	2008	2009	2010	2011	2012
A. Lower projection:							
Total, all industries in EGR	16	16	16	16	16	16	16
310 Manufacturing	4	4	4	4	4	4	4
326 Plastics and Rubber Products Manufacturing	3	3	3	3	3	3	3
B. Middle projection:							
Total, all industries in EGR	24				24		24
310 Manufacturing	24	24	24	24	24	24	24
C. Upper projection:							
Total, all industries in EGR	33				33		33
310 Manufacturing	33	33	33	33	33	33	33
			L				
			Notes:				
This worksheet allows for "ranges" of estimates A. "Lower" means that your EGR thinks the prob				ainty. The meanings of the	words "Lower," "Middle," an	d "Upper" are as follows:	
B. "Middle" means that your EGR thinks the pro							
C. "Upper" means that your EGR thinks the pro							
Notes: Due to confidentiality, primary data used							
as a whole. State and National projections, calib							

EGR Name	FGR7		Supply Side Worksheet #1 ("Production")										
	LOIN												
Occupation Name		Supervisors/	Managers o	of Mechanic	s, Installers	, and Repai	rers						
Occupation SOC	49-1011												
Projected "production" of new	entrants	into this	occupation	on, by ye	ar								
Year	2006	2007	2008	2009	2010	2011	2012						
. Graduates/completers of educatio	<mark>n and traini</mark>	<mark>ng progra</mark> r	ns in this E	GR:									
Indiana State University	17	17	17	17	17	17	17						
o. Other sources of entrants (other t	han in-migr	ation)											
n/a	0	0	0	0	0	0	0						
n/a	0	0	0	0	0	0	0						
c. Total new supply	17	17	17	17	17	17	17						

Supply Side Worksheet #2 ("Migration")										
EGR Name:	EGR7									
Occupation Name:		Supervisors/	Managers of	of Mechanic	s, Installers	, and Repai	rers			
Occupation SOC:	49-1011									
Year	2006	2007	2008	2009	2010	2011	2012			
1. Projected IN-migration of we	orkers in	this occu	ipation to	this EG	R, by yea	r				
a. From outside this EGR	0	0	0	0	0	0	0			
b. From other occupations	0	0	0	0	0	0	0			
2. Projected OUT-migration of	workers	in this oc	cupation	to this E	GR, by y	ear				
a. To places outside this EGR	4	4	4	4	4	4	4			
b. Into other occupations 0 0 0 0 0 0										
3. Net IN-Migration	-4	-4	-4	-4	-4	-4	-4			

	Worksheet for Calculating Shortages or Surpluses of One Occupation									
		Worksheet	for Calculating Sh	ortages or Surplus	es of One Occupat	ion				
EGR Name: E	EGR7									
Occupation Name: F	First-Line Supervisors/Mana	gers of Mechanics, Inst	allers, and Repairers							
Occupation SOC: 4	49-1011									
A. Lower projection:										
Total, all industries in EGR										
Year	2005	2006	2007	2008	2009	2010	2011	2012		
Carryover from last year (+/-)		16	19	22	25	28	31	34		
New demand during year		16	16	16	16	16	16	16		
New production during year		17	17	17	17	17	17	17		
Net migration during year		-4	-4	-4	-4	-4	-4	-4		
Net change during year		3	3	3	3	3	3	3		
Carryover to next year (+/-)	16	19	22	25	28	31	34	37		
B. Middle projection:										
Total, all industries in EGR										
Year	2005	2006	2007	2008	2009	2010	2011	2012		
Carryover from last year (+/-)		24	35	46	57	68	79	90		
New demand during year		24	24	24	24	24	24	24		
New production during year		17	17	17	17	17	17	17		
Net migration during year		-4	-4	-4	-4	-4	-4	-4		
Net change during year		11	11	11	11	11	11	11		
Carryover to next year (+/-)	24	35	46	57	68	79	90	101		
C. Upper projection:										
Total, all industries in EGR										
Year	2005	2006	2007	2008	2009	2010	2011	2012		
Carryover from last year (+/-)		33	53	73	93	113	133	153		
New demand during year		33	33	33	33	33	33	33		
New production during year		17	17	17	17	17	17	17		
Net migration during year		-4	-4	-4	-4	-4	-4	-4		
Net change during year		20	20	20	20	20	20	20		
Carryover to next year (+/-)	33	53	73	93	113	133	153	173		
				Notes:						
(4) A	A positive (1) compared indicates a link entered of workers in this accuration. A positive (1) compared to the approximation of the property o									

- (1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite.
 (2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:
- A. "Lower" means that your EGR thinks the probablity is no more than 25% that the true value lies below it.
- B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.
 C. "Upper" means that your EGR thinks the probablity is no more than 25% that the true value lies above it.

			Demand Side Wor	rksheet			
EGR Name:	EGR7						
Occupation Name:	Electrical and Electronics Repa	airers, Commercial and Industr	al Equipment				
Occupation SOC:	49-2094						
1. Estimated Job vacancies, end of	2005						
Lower estimate	4						
Middle estimate	14						
Upper estimate	25						
2. Projected number of job openings	s annually due to growt	h and net replacements:					
Year	2006	2007	2008	2009	2010	2011	2012
A. Lower projection:							
Total, all industries in EGR	4	4	4	4	4	4	4
310 Manufacturing	2	2	2	2	2	2	2
325 Chemical Manufacturing	2	2	2	2	2	2	2
B. Middle projection:							
Total, all industries in EGR	14		14		14	14	
310 Manufacturing	14	14	14	14	14	14	14
C. Upper projection:	0.5	0.51	0.5	95	-		
Total, all industries in EGR	25		25		25	25	
310 Manufacturing	25	25	25	25	25	25	25
			Notes:				

This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:

A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it.

B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.

C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it.

Notes: Due to confidentiality, primary data used to estimate middle and upper projections was aggregated to manufacturing as a whole. State and National projections, calibrated to EGR7, were believed to be low and used as EGR7's lower projection.

Supply	Side W	orkshee	t #1 ("P	roductio	n")						
EGR Name:	EGR7										
Occupation Name:		nd Electron	ics Repaire	rs, Commer	cial and Ind	lustrial Equi	pment				
Occupation SOC:	49-2094										
Projected "production" of new	Projected "production" of new entrants into this occupation, by year										
Year	2006	2007	2008	2009	2010	2011	2012				
a. Graduates/completers of education	n and traini	<mark>ng progra</mark> r	ns in this E	GR:							
Ivy Tech	10	10	10	10	10	10	10				
b. Other sources of entrants (other th	an in-migr	ation)									
n/a	0	0	0	0	0	0	0				
n/a	0	0	0	0	0	0	0				
etc. (add as necessary)											
c. Total new supply 10 10 10 10 10 10 10											

Supply	Supply Side Worksheet #2 ("Migration")										
EGR Name:	EGR7										
Occupation Name:	Electrical a	nd Electron	ics Repaire	rs, Comme	cial and Inc	dustrial Equi	pment				
Occupation SOC:	49-2094										
Year	2006	2007	2008	2009	2010	2011	2012				
1. Projected IN-migration of workers in this occupation to this EGR, by year											
a. From outside this EGR	0	0	0	0	0	0	0				
b. From other occupations	0	0	0	0	0	0	0				
2. Projected OUT-migration of	workers	in this oc	cupation	to this E	GR, by y	ear					
a. To places outside this EGR	2	2	2	2	2	2	2				
b. Into other occupations	0	0	0	0	0	0	0				
3. Net IN-Migration	-2	-2	-2	-2	-2	-2	-2				

		Workshee	t for Calculating Sho	rtages or Surpluses	of One Occupation	1		
EGR Name:	EGR7			9		-		
	Electrical and Electronics Rep	pairers. Commercial and In	dustrial Equipment					
Occupation SOC:								
A. Lower projection:								
Total, all industries in EGR								
Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		4	0	-4	-8	-12	-16	-20
New demand during year		4	4	4	4	4	4	
New production during year		10	10	10	10	10	10	10
Net migration during year		-2	-2	-2	-2	-2	-2	-2
Net change during year		-4	-4	-4	-4	-4	-4	-4
Carryover to next year (+/-)	4	0	-4	-8	-12	-16	-20	-24
B. Middle projection:								
Total, all industries in EGR								
Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		14	20	26	32	38	44	50
New demand during year		14	14	14	14	14	14	14
New production during year		10	10	10	10	10	10	10
Net migration during year		-2	-2	-2	-2	-2	-2	-2
Net change during year		6	6	6	6	6	6	(
Carryover to next year (+/-)	14	20	26	32	38	44	50	56
C. Upper projection:								
Total, all industries in EGR								
Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		25	42	59	76	93	110	127
New demand during year		25	25	25	25	25	25	25
New production during year		10	10	10	10	10	10	10
Net migration during year		-2	-2	-2	-2	-2	-2	-2
Net change during year		17	17	17	17	17	17	17
Carryover to next year (+/-)	25	42	59	76	93	110	127	144
			_	Notes:			•	
(1) A positive (+) carryover	indicates a "shortage" o	f workers in this occur	nation A negative (-) car	ryover indicates the or	nnosite			
(1) A positive (+) carryover	maidated a shortage o		Janon A negative (-) car	i jover maisaces the op	opoolio.			

⁽¹⁾ A positive (+) carryover indicates a shortage of workers in this occupation. A negative (-) carryover indicates the opposite.

(2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:

A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it.

B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.

C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it.

		Dema	nd Side Workshee	et			
EGR Name:	EGR7						
Occupation Name:	Maintenance Repair World	kers; General					
Occupation SOC:	49-9042						
1. Estimated Job vacancies, end of 2005							
Lower estimate	30						
Middle estimate	35						
Upper estimate	40						
2. Projected number of job openings annually	due to growth and r	net replacements:					
Year	2006	2007	2008	2009	2010	2011	2012
A. Lower projection:							
Total, all industries in EGR	30	30	30	30	30	30	30
310 Manufacturing	30	30	30	30	30	30	30
B. Middle projection:							
Total, all industries in EGR	35			35			35
310 Manufacturing	35	35	35	35	35	35	35
C. Upper projection:		·					
Total, all industries in EGR	40	40		40			40
326 Plastics and Rubber Products Manufacturing		11	11	11	11	11	11
336 Transporation Equipment Manufacturing	4	4	4	4	4	4	4
325 Chemical Manufacturing	3	3	3	3	3	3	3
						1	

Notes:

This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:

A. "Lower" means that your EGR thinks the probablity is no more than 25% that the true value lies below it.

B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.

C. "Upper" means that your EGR thinks the probablity is no more than 25% that the true value lies above it.

Notes: Upper projection represents state and national data calibrated to EGR7. Lower and middle projections were based on aggregate date provided by local industry. Because of confidentiality, manufacturing as an aggregate industry was used.

Supply	/ Side W	orkshee	t #1 ("P	roductio	on")		
EGR Name							
Occupation Name		ce Repair W	/orkers; Gei	neral			
Occupation SOC	: 49-9042						
Projected "production" of new	/ Antrants	into this	occupati	on by ve	ar	_	
Year	2006	2007	2008	2009	2010	2011	2012
1001			2000				
a. Graduates/completers of education	n and traini	ng prograr	ns in this E	GR:			
Ivy Tech	22	22	22	22	22	22	22
	1	- (!)					
b. Other sources of entrants (other t	<u>han in-migr</u>	ation)					
n/a n/a	4						
11/4	1						
c. Total new supply	22	22	22	22	22	22	22
от тога пол опред	<u></u>						
Suppl	y Side W	orkshe/	et #2 ("N	/ligratio	n")		
EGR Name			•		,		
Occupation Name	: Maintenan	ce Repair W	/orkers; Gei	neral			
Occupation SOC	: 49-9042						
Year	2006	2007	2008	2009	2010	2011	2012
	<u> </u>						
1. Projected IN-migration of w	<u>orkers in </u>	this occu	ipation to	this EG	R, by yea	<u> </u>	
a. From outside this EGR	0	0	0	0	0	0	0
b. From other occupations	0	0	0	0	0	0	0
2. Projected OUT-migration o	f workers	in this oc	cupation	to this E	GR, by y	ear	
a. To places outside this EGR	4	4	4	4	4	4	4
b. Into other occupations	5	5	5	5	5	5	5
							

-9

-9

-9

-9

-9

-9

3. Net IN-Migration

		Works	heet for Calcu	lating Shor	tages or Surp	uses of One O	ccupation					
EGR Name: E	GR7						•					
Occupation Name: N	Maintenance Repairer Worke	ers; General										
Occupation SOC: 4	19-9042	•										
A. Lower projection:												
Total, all industries in EGR												
Year	2005	2006	2007		2008	2009		2010	2011		2012	
Carryover from last year (+/-)		30	•	47		4	81	9	8	115		132
New demand during year		30		30		0	30	3	0	30		30
New production during year		22		22		2	22	2	2	22		22
Net migration during year		-9		-9		9	-9		9	-9		-9
Net change during year		17		17		7	17		7	17		17
Carryover to next year (+/-)	30	47		64		1	98	11	5	132		149
B. Middle projection:												
Total, all industries in EGR												
Year	2005	2006	2007		2008	2009		2010	2011		2012	
Carryover from last year (+/-)		35	•	57		9	101	12	3	145		167
New demand during year		35		35	;	5	35	3	5	35		35
New production during year		22		22		2	22	2	2	22		22
Net migration during year		-9		-9		9	-9		9	-9		-9
Net change during year		22		22		2	22		2	22		22
Carryover to next year (+/-)	35	57		79	10	1	123	14	5	167		189
C. Upper projection:												
Total, all industries in EGR												
Year	2005	2006	2007		2008	2009		2010	2011		2012	
Carryover from last year (+/-)		40		67	9	4	121	14	8	175		202
New demand during year		40		40		0	40	4	0	40		40
New production during year		22		22		2	22	2	2	22		22
Net migration during year		-9		-9		9	-9		9	-9		-9
Net change during year		27		27	:		27		7	27		27
Carryover to next year (+/-)	40	67	-	94	12	1	148	17	5	202		229
				_	Notes:				_			
(1) A positive (+) carryover i	indicates a "shortage"	of workers in this occu	pation. A negative	e (-) carrvove	r indicates the	pposite.						
(2) This worksheet allows for "ran							o worde "Lower	" "Middle " and "Hr	nor" are as follows:			

- (2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:

 A. "Lower" means that your EGR thinks the probability is no more than 25% that the true value lies below it.

 B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.

 C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies either below it.

			emand Side Works	sheet			
EGR Name: E	EGR7						
Occupation Name: N	Maintenance Workers, Mach	inery					
Occupation SOC: 4	49-9043						
1. Estimated Job vacancies, end of 2009	5						
Lower estimate	3						
Middle estimate	14						
Upper estimate	25						
2. Projected number of job openings an	nually due to growth a	and net replacements:					
Year	2006	2007	2008	2009	2010	2011	2012
A. Lower projection:							
Total, all industries in EGR	3	3	3	3	3	3	3
326 Plastics and Rubber Products Manufacturing	1	1	1	1	1	1	1
310 Manufacturing	2	2	2	2	2	2	2
B. Middle projection:							
Total, all industries in EGR	14	14	14	14	14	14	14
310 Manufacturing	14	14	14	14	14	14	14
C. Upper projection:							
Total, all industries in EGR	25	25	25	25	25	25	25
310 Manufacturing	25	25	25	25	25	25	25
			Notes:				
This worksheet allows for "ranges" of estimates	and projections in recogn	ition of the fact that these va	alues cannot be known with	h certainty. The meanings	of the words "Lower," "Mic	dle," and "Upper" are as fo	llows:

This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known value of the fact that the value lies below it.

B. "Middle" means that your EGR thinks the probability is no more than 25% that the true value lies either below it or above it.

C. "Upper" means that your EGR thinks the probability is no more than 25% that the true value lies above it.

Notes: Due to confidentiality, primary data used to estimate middle and upper projections was aggregated to manufacturing as a whole. State and National projections, calibrated to EGR7, were believed to be low and used as EGR7's lower projection.

Supply	Side W	orkshee	t #1 ("P	roductio	n")				
EGR Name:	EGR7								
Occupation Name:	Maintenand	ce Workers,	Machinery						
Occupation SOC:	49-9043		·						
Projected "production" of new entrants into this occupation, by year									
Year	2006	2007	2008	2009	2010	2011	2012		
a. Graduates/completers of education	n and traini	<mark>ng progra</mark> r	ns in this E	GR:					
Ivy Tech	17	17	17	17	17	17	17		
Indiana State University	3	3	3	3	3	3	3		
etc. (add as necessary)									
b. Other sources of entrants (other th	an in-migr	ation)							
n/a									
n/a									
c. Total new supply	20	20	20	20	20	20	20		

Supply	Supply Side Worksheet #2 ("Migration")										
EGR Name:	EGR7										
Occupation Name:		ce Wrokers,	Machinery								
Occupation SOC:	49-9043										
Year	2006	2007	2008	2009	2010	2011	2012				
1. Projected IN-migration of workers in this occupation to this EGR, by year											
a. From outside this EGR	0	0	0	0	0	0	0				
b. From other occupations	0	0	0	0	0	0	0				
2. Projected OUT-migration of	workers	in this oc	cupation	to this E	GR, by y	ear					
a. To places outside this EGR	5	5	5	5	5	5	5				
b. Into other occupations	5	5	5	5	5	5	5				
3. Net IN-Migration	-10	-10	-10	-10	-10	-10	-10				

		Workshoot fo	or Calculating She	ortages or Surplus	os of One Occupa	tion		
EGR Name:	ECD7	Worksneet it	or Calculating Snc	riages or Surplus	es of One Occupa	uon		
	Maingenance Workers: Mac	hinon						
Occupation SOC:		.mnery						
Occupation Soc.	49-9043							
A. Lower projection:								
Total, all industries in EGR								
Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		3	-4	-11	-18	-25	-32	-39
New demand during year		3	3	3	3	3	3	3
New production during year		20	20	20	20	20	20	20
Net migration during year		-10	-10	-10	-10	-10	-10	-10
Net change during year		-7	-7	-7	-7	-7	-7	-7
Carryover to next year (+/-)	3	-4	-11	-18	-25	-32	-39	-46
B. Middle projection:								
Total, all industries in EGR								
Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		14	18	22	26	30	34	38
New demand during year		14	14	14	14	14	14	14
New production during year		20	20	20	20	20	20	20
Net migration during year		-10	-10	-10	-10	-10	-10	-10
Net change during year		4	4	4	4	4	4	4
Carryover to next year (+/-)	14	18	22	26	30	34	38	42
C. Upper projection:								
Total, all industries in EGR								
Year	2005	2006	2007	2008	2009	2010	2011	2012
Carryover from last year (+/-)		25	40	55	70	85	100	115
New demand during year		25	25	25	25	25	25	25
New production during year		20	20	20	20	20	20	20
Net migration during year		-10	-10	-10	-10	-10	-10	-10
Net change during year		15	15	15	15	15	15	15
Carryover to next year (+/-)	25	40	55	70	85	100	115	130
				Notes:				

- (1) A positive (+) carryover indicates a "shortage" of workers in this occupation. A negative (-) carryover indicates the opposite.
 (2) This worksheet allows for "ranges" of estimates and projections in recognition of the fact that these values cannot be known with certainty. The meanings of the words "Lower," "Middle," and "Upper" are as follows:
- A. "Lower" means that your EGR thinks the probablity is no more than 25% that the true value lies below it.
- B. "Middle" means that your EGR thinks the probability is about equal that the true value lies either below it or above it.
 C. "Upper" means that your EGR thinks the probablity is no more than 25% that the true value lies above it.